PROJECT ENGINEERING PACKAGE

REFURBISH MOBILE AIRPORT TRAFFIC CONTROL TOWER (MATCT) Q42, AT CENTRAL SERVICE AREA (CSA) STAGING AREA, INDEPENDENCE, MO

DATE
02/14/2012

Revision History

Version	Date	Person	Reason For Change
1.0	1/12/10	Missy Nelson	Original Draft
2.0	01/24/2011	Moni Jacob	Revised SOW to add Roof Replacement
3.0	02/08/2012	Moni Jacob	Revised POC, Schedule, and SOW

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1 General

1.1 Purpose

The purpose of this document is to provide a detailed Statement Of Work (SOW) to refurbish the Q42 Mobile Airport Traffic Control Tower (MATCT). This document will be used by the FAA Logistics Center (AML) for the bidding and procurement process for this project for completion of work no later than 60 days after award.

1.2 Introduction

The Q42 MATCT was built in 1994 by Silver Streak RV's (Silver Streak is no longer in business). The MATCT is in fair to good condition and requires mostly cosmetic refurbishment per the included SOW. The dimensions are 41' L x 8'4" W x 13' H and is pulled as a fifth wheeler.

Q42 is currently located in FAA staging area located at:
210 South Geospace Drive
Independence, MO 64056

1.3 Project Scope

The scope of this project is limited to details which describe the exterior and interior refurbishment of the Q42 MATCT. See the statement of work in section 4.1 for requirements.

1.4 Target Audience

The target audiences for this document are the companies bidding on this project, the Contracting Officers Technical Representative (COTR), and system engineers of the FAA.

1.5 Definition, Acronyms and Abbreviations

AF – Air Facilities

AT – Air Traffic

ATCT – Airport Traffic Control Tower

CAI – Contractor Acceptance Inspection

CO – Contracting Officer

COTR - Contracting Officer's Technical Representative

EOSH – Environmental Occupational Safety and Health

HAZMAT – Hazardous Materials

JAI – Joint Acceptance Inspection

MATCT – Mobile Airport Traffic Control Tower

SOW – Statement of Work

TRDR – Technical Reference Data Record

1.6 References

1. FAA Order 4800.2C, "*Utilization and Disposal of Excess and Surplus Personal Equipment*", December 2004.

2. FAA Order 6030.45B, "*Facility Reference Data File*", August 2004.

3. FAA Order 1050.20A, "*Airway Facilities Asbestos Control Program*", October 2008.

4. FAA Order 3900.19B, "*FAA Occupational Safety and Health Program*", April 1999.

5. FAA-C-1217F, "*Electrical Work, Interior*", February 1996.

6. FAA-STD-019E, "*Lightning and Surge Protection, Grounding, Bonding and Shielding Requirements for Facilities and Electronic Equipment*", December 2005.

7. OSHA 29 CFR 1910.147, "*Occupational Safety and Health Standards*", August 1998.

   (Publically available on the internet)

2 Project Coordination

2.1 Points of Contact

Regional		
AJW-C24B Operations Engineer and Contracting Officer Technical Representative (COTR)	Moni Jacob	817.222.4725 (o) moni.jacob@faa.gov
AJW-C24B Operations Support – Fort Worth Manager	Howard Manning	817.222.4785 (o) Howard.T.Manning@faa.gov
Local		
Staging Area Acting Manager	Lori VanderLeest	816.329.3562 (o) 816.806.2850 (c) lori.vanderleest@faa.gov
Infrastructure Group Manager	Connie Beeman	817.222.4703 (o) 817.825.0630 (c) constance.beeman@faa.gov
Operations Engineering Group Manager	Carl Piccolo	817.222.4501 (o) 817.825.5412 (c) carl.piccolo@faa.gov

2.2 Work Station

Facility Location - FAA Staging Area
210 south Geospace Drive
Independence, MO 64056

2.3 Schedule

Table 1 contains the various work activity dates for this project.

Activity	Start
Preconstruction meeting	15 days after award
Plant construction & installation	53 days after NTP
Contractor Acceptance Inspection (CAI)	7 days after plant construction & installation
Joint Acceptance Inspection/Physical Completion (JAI)	7 days after plant construction & installation

Table 1 - Work Schedule

2.4 Training / Certification

If applicable, the contractor will provide training on any new equipment installed (e.g., self-leveling motors). Training can begin after installation and site-acceptance.

2.5 System Acceptance and Commissioning

JAI will be performed after installation & contractor acceptance have been completed at the facility location.

2.6 Roles and Responsibilities

The installation effort will be the cooperative effort from AJW-C24B, and the FAA staging area. **Error! Reference source not found.** outlines the roles of each organization.

Organization	Responsibility
FAA Staging Area (AJW-C14B)	Ensure Q42 is available for transport for refurbishment Assist with CAI and JAI
AJW-C24B	Provide a COTR for the project Complete CAI/JAI
Contractor	Perform the activities stated in the contract

Table 2 - Roles and Responsibilities

3 Hazmat / EOSH Impacts

- Asbestos – If it is determined that Asbestos is present in the flooring at the installation site, Terminal Engineering Services is responsible for drilling the necessary rack mounting holes. Follow proper procedures identified in FAA order 1050.20 *[3],* for drilling the holes.
- Hazardous Energy - As required by OSHA (29 CFR 1910.147 [7] and 1960) and FAA Order 3900.19B [4], all hazardous energy sources shall be locked out and tagged prior to working on the

power source. Refer to the ANI Standard Operating Procedure (SOP) *Hazardous Energy* for work requirements. All new energy sources installed shall be clearly marked on all power panels and circuits. The new circuits, outlets and receptacles shall clearly identify the panel and circuit breaker that feeds it.

- General - Material Safety Data Sheets (MSDS) for hazardous materials already present in the workplace shall be provided by the District Office. Contractors shall identify and provide MSDS for all hazardous materials brought into the work area by themselves or their sub-contractors. Refer to any of the EOSH Environment Engineers contacts above if any environmental, health or safety issues arise.

4 Installation Activities

4.1 Statement of Work

The work is broken into interior and exterior activities. Any item replaced must be as good as or better than the original. Functionality must remain the same.

Exterior Requirements:

1. Remove and reinstall new entry doors/screens (same composition and specification). Provide the details for approval from the Contracting Officer Technical Representative (COTR).

2. Replace all rusty bolts with stainless steel bolts (approximately 1000 bolts).

3. Repair & re-caulk windows with Butyl Roll Caulking, part #7418 or better and reseal windows.

4. Remove both old fold up stairs and install new fold up stairs (same composition and specification). Provide the details for approval from the COTR

5. Sand blast and repair/re-finish rear bumper with epoxy in black finish (non-skid).

6. Power wash, prime and paint (2 tone) entire exterior of trailer including undercarriage. Use weather resistant all-weather paint similar to original.

7. Replace the rubber roof upper and lower decks.

8. Install non-skid material on the roof.

9. Replace all batteries with similar size and model. Clean all battery connections. Dispose of old batteries properly, as per the law.

Interior Requirements:

1. Clean and re-paint all interior walls, ceilings and finishes. Use a good quality, flat latex paint. Use primer coat for proper paint finish.

2. Remove hot water heater, stool, sink and plumbing. Cap off all pipes and cover holes with powder coated aluminum plates. Dispose of removed materials properly, according to the applicable laws.

3. Replace consoles in cab/equipment area. Replace equipment consoles with similar consoles. Determine with COTR onsite if entire consoles need replacement or just the tops. For bidding purposes, include replacing entire consoles. Remove old consoles, install new consoles and reinstall equipment into

consoles. COTR will make sure all is working correctly, but contractor will reinstall all equipment and power into new consoles.

4. Replace workbench. Remove old workbench and replace with similar size and composition. Provide details to COTR for approval.

5. Replace self -leveling motors (RV Electric Leveling Jacks - The RV Electric Leveling Jack Should be capable of stabilizing up to 6000 pounds, if needed lifting up to 6000 pounds. A power twin remote control should also be provided). Provide training if applicable. Provide details to COTR for approval.

6. Remove old carpet and install new pad and anti-static carpet.

7. Remove old shades and replace with new shades per FAA Order 6930.22, Specification FAA-E-2470. (Publically available on the internet).

8. Have inside of unit professionally cleaned.

9. Deliver the refurbished Q42 to facility location.

10. CAI/JAI will be completed and all punch list items will be corrected by contractor.

4.2 Site Preparation

Personnel from the FAA staging area will transport the Q42 MATCT to the staging area located at Independence, MO. All refurbishment work shall be done at the contractor's facility. When the project is complete, contractor will return Q42 back to the staging area. The COTR will be provided by the Operations Support to provide oversight for this project.

4.3 Equipment Installation

No new electronics equipment is to be installed. Existing electronics equipment will be reinstalled in new consoles. COTR will supervise and check out after installation.

5 Performance Verification

Provide all manufacturer's warranty and handbooks for all equipment installed. Perform any applicable performance measurements required for the equipment installed per the COTR direction.

6 Contractor Acceptance Inspection/Joint Acceptance Inspection

Coordinate with the CO and Central Service Area Operations Engineering AJW-C24B personnel for inspection and acceptance.

7 Test Equipment / Special Tools

No special test equipment or tools are expected to be required for this project.

8 Project Discrepancies

This project was engineered by Mr. Moni Jacob. The CO and the Contracting Officer Technical Representative (COTR) should be advised of any problems or discrepancies noted in the project.

9 Drawing and Documentation

There are no FAA drawings provided for this project. The contractor shall provide two sets of any drawing and/or sketches for "as-built" installed items. One set will be left in the MATCT and one set returned to:

Operations Engineering
AJW-C24B
2601 Meacham Blvd AJW-C24B
Fort Worth, TX 76137